

Amendments to the Specification

Please amend paragraph [0002] of the specification as follows:

Provisional U.S. Patent Application Serial No. 60/239,525, entitled "Using the TDMA Characteristics of a DOCSIS Cable Modem Network to Support Extended Protocols," filed October 11, 2000, by Bunn *et al.*, (~~still pending~~)(incorporated by reference in its entirety herein).

Please amend paragraph [0003] of the specification as follows:

Provisional U.S. Patent Application Serial No. 60/239,526, entitled "Dynamic Delta Encoding for Cable Modem Header Suppression," filed October 11, 2000 by Bunn *et al.*, (~~still pending~~)(incorporated by reference in its entirety herein).

Please amend paragraph [0004] of the specification as follows:

Provisional U.S. Patent Application Serial No. 60/239,524, entitled "Dynamically Mixing Protocol-Specific Header Suppression Techniques to Maximize Bandwidth Utilization in a DOCSIS Network," filed October 11, 2000 by Bunn *et al.*, (~~still pending~~)(incorporated by reference in its entirety herein).

Please amend paragraph [0005] of the specification as follows:

Provisional U.S. Patent Application Serial No. 60/239,530, entitled "Efficiently Transmitting RTP Protocol in a Network that Guarantees In Order Delivery of Packets,"

filed October 11, 2000 by Bunn *et al.*, (~~still pending~~)(incorporated by reference in its entirety herein).

Please amend paragraph [0006] of the specification as follows:

Provisional U.S. Patent Application Serial No. 60/239,527, entitled "Packet PDU Data Compression within a DOCSIS Network," filed October 11, 2000, by Bunn *et al.*, (~~still pending~~)(incorporated by reference in its entirety herein).

Please amend paragraph [0007] of the specification as follows:

Provisional U.S. Patent Application Serial No. 60/240,550, entitled "Cable Modem System," filed October 13, 2000, by Bunn *et al.*, (~~still pending~~)(incorporated by reference in its entirety herein).

Please amend paragraph [0009] of the specification as follows:

"Cable Modem System and Method for Dynamically Mixing Protocol Specific Header Suppression Techniques," U.S. Patent Serial No. ~~TBD~~ 09/973,781 (~~Attorney Docket No. 1875.0660001~~), by Bunn *et al.*, filed concurrently herewith and incorporated by reference herein in its entirety.

Please amend paragraph [0010] of the specification as follows:

"Efficiently Transmitting RTP Protocol in a Network that Guarantees In Order Delivery of Packets," U.S. Patent Serial No. ~~TBD~~ 09/973,872 (~~Attorney Docket No.~~

1875.0670001), by Bunn *et al.*, filed concurrently herewith and incorporated by reference herein in its entirety.

Please amend paragraph [0011] of the specification as follows:

"Dynamic Delta Encoding for Cable Modem Header Suppression," U.S. Patent Serial No. ~~TBD~~ 09/973,871 (~~Attorney Docket No. 1875.0640001~~), by Bunn *et al.*, filed concurrently herewith and incorporated by reference herein in its entirety.

Please amend paragraph [0012] of the specification as follows:

"Cable Modem System and Method for Supporting Packet PDU Data Compression," U.S. Patent Serial No. ~~TBD~~ 09/973,783 (~~Attorney Docket No. 1875.0680002~~), by Bunn *et al.*, filed concurrently herewith and incorporated by reference herein in its entirety.

Please amend paragraph [0016] of the specification as follows:

Conventional cable modem systems utilize DOCSIS-compliant equipment and protocols to carry out the transfer of data packets between multiple cable modems and a CMTS. The term DOCSIS (Data Over Cable ~~System~~ Service Interface Specification) generally refers to a group of specifications published by CableLabs that define industry standards for cable headend and cable modem equipment. In part, DOCSIS sets forth requirements and objectives for various aspects of cable modem systems including operations support systems, management, data interfaces, as well as network layer, data

link layer, and physical layer transport for data over cable systems. The most current version of the DOCSIS specification is DOCSIS 1.1.

Please amend paragraph [0051] of the specification as follows:

FIGs. 22A and 22B are [[is]] a flow diagram illustrating a method for TCP header reconstruction according to an embodiment of the present invention.

Please amend paragraph [0243] of the specification as follows:

FIGs. 22A and B are [[is]] a flow diagram 2200 illustrating a method for TCP header reconstruction. The invention is not limited to the description provided herein with respect to flow diagram 2200. Rather, it will be apparent to persons skilled in the relevant art(s) after reading the teachings provided herein that other functional flow diagrams are within the scope of the present invention. A 54-byte template header is generated by the DOCSIS payload header reconstruction engine (not shown) prior to the start of flow diagram 2200. The process begins with step 2202 in FIG. 22A, where a TCP header reconstructor is started. The process then proceeds to step 2204.

Please amend paragraph [0249] of the specification as follows:

In step 2214, the correct 54-byte header, transmitted from CM 108, is read from the input stream. The process then proceeds to step 2216 in FIG. 22B.

Please amend paragraph [0251] of the specification as follows:

Returning to decision step 2208 in FIG. 22A, if L bit 1702 of change byte 1700 is not set, then the process proceeds to decision step 2220.

Please amend paragraph [0271] of the specification as follows:

In step 2250, the next 2-bytes of data from the input stream are copied into TCP checksum field 1456 at offset 50. The process then proceeds to decision step 2252 in FIG. 22B.